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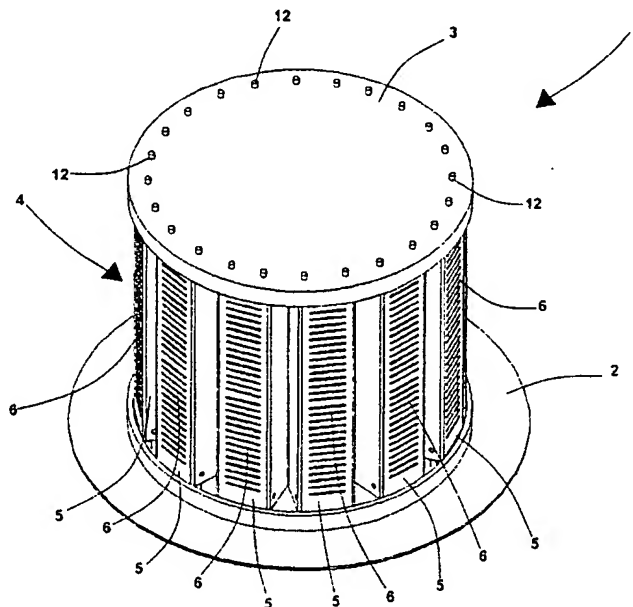
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(54) Title: **BURNER WITH DIFFUSER RESISTANT TO HIGH OPERATING TEMPERATURES**



(57) Abstract: A burner (1; 1a; 20; 25; 111; 115; 118) suppliable with a mixture of air and fuel, comprising a burner body provided with a diffuser (4; 4a, 4b; 23; 113; 117; 119) in which openings are made for the passage and subsequent combustion of said mixture, said diffuser (4; 4a, 4b; 23; 113; 117; 119) is divided into a plurality of diffuser elements (5; 26; 26a; 26b; 26c; 26d; 37; 44; 46; 57; 60; 70; 75; 89; 93; 98; 106) that are adjacent to one another, each diffuser element (5; 26; 26a; 26b; 26c; 26d; 37; 44; 46; 57; 60; 70; 75; 89; 93; 98; 106) being at least partially free to dilate in at least one direction.

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